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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,104	03/19/2004	Jari Makinen	59643.00374	7097
32294 7590 05/17/2007 SQUIRE, SANDERS & DEMPSEY L.L.P. 14TH FLOOR			EXAMINER	
			AZAD, ABUL K	
8000 TOWERS CRESCENT TYSONS CORNER, VA 22182		·	ART UNIT	PAPER NUMBER
			2626	
			MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/804,104	MAKINEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	ABUL K. AZAD	2626			
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory periorallure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a red will apply and will expire SIX (6) MON the cause the application to become AF	CATION. reply be timely filed  ITHS from the mailing date of this communication. BANDONED (35 U.S.C. & 133)			
Status					
1) Responsive to communication(s) filed on 19	March 2004.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	). 11, 453 O.G. 213.			
Disposition of Claims					
4)  Claim(s) 1-22 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-22 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examir	ner.				
10)⊠ The drawing(s) filed on 19 March 2004 is/are:		ected to by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corre					
Priority under 35 U.S.C. § 119	-xamilier. Note the attached	TO MICE ACTION OF TO MIT PTO-132.			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Aportity documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)		•			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		s)/Mail Date nformal Patent Application 			

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## **DETAILED ACTION**

1. Claims 1-22 are pending in this office action.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Su et al. (US 6,823,303).

As per claim 1, Su teaches, "a method of encoding speech in a communications system", said method comprising the steps of:

"receiving a speech signal including voice signals and background signals" (Fig. 1b element 1550;

"detecting voice activity and providing an indicator when no voice activity is detected" (Fig. 2, element 235);

"encoding the speech signal to generate a plurality of parameters representing the signal" (Fig. 1b element 185); and

"when the indicator is not present, outputting a first parametric representation of the speech signal comprising the plurality of parameters, and, when the indicator is

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parametric representation of the speech signal including the modified parameter" (col. 6, lines 32-65).

As per claim 2, Su teaches, "wherein the plurality of parameters includes a linear prediction calculation vector of quantized linear prediction filter coefficients" (col. 9, lines 19-67).

As per claim 3, Su teaches, "wherein the plurality includes a gain parameter based on open-loop lag value" (col. 10, lines 10-16).

As per claim 4, Su teaches, "wherein the plurality of parameters includes a residual vector" (col. 7, lines 18-28).

As per claim 5, Su teaches, "wherein the speech signal is received as a sequence of samples arranged in frames" (col. 9, lines 26-35).

As per claim 6, Su teaches, "wherein the step of modifying the at least one parameter includes smoothing the parameter for a current frame based on characteristics of the parameter in other frames of the speech signal" (col. 10, lines 1-27).

As per claim 7, Su teaches, "wherein said other frames include adjacent frames" (col. 10, lines 1-27).

As per claim 8, Su teaches, "wherein the step of modifying the at least one parameter includes producing a count of the number of received frames up to a predetermined maximum, and using said count in the modifying step" (col. 14, lines 14-36).

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As per claim 9, Su teaches, "wherein the step of modifying at the least one parameter includes generating a randomized value for the parameter" (col. 14, lines 14-36).

As per claim 10, Su teaches, "wherein the step of modifying the at least one parameter includes taking into account the energy levels associated with the parameter" (col. 13, lines 5-10).

As per claim 11, Su teaches, "wherein the step of modifying the at least one parameter includes modifying a value utilized in the generation of the parameter, whereby modification of that value produces a modified parameter" (col. 14, lines 14-36).

As per claim 12, Su teaches, "wherein the step of modifying the value comprises randomizing the value" (col. 10, lines 17-37).

As per claims 13-22, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1-12.

## **Contact Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abul K. Azad** whose telephone number is **(571) 272-7599.** If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Patric Edouard**, can be reached at **(571) 272-7603.** 

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Any response to this action should be mailed to:

**Commissioner for Patents** 

P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to: (571) 273-8300.

Hand-delivered responses should be brought to **401 Dulany Street, Alexandria, VA-22314** (Customer Service Window).

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May 13, 2007

Abul K. Azad Primary Examiner -Art Unit 2626